Caroline County

Demographics & Social Determinants of Health (2005-2009)

	Caroline County	Maryland
Population		
Total	32,727	5,637,418
Female	16,601	2,907,051
Male	16,126	2,730,367
% Race/Ethnicity:		
White	81.3	60.9
African American	13.2	28.8
Asian	0.8	4.9
Native American	0.4	0.3
Pacific Islander	0.8	0.1
2+ Races	1.5	2.0
Other	2.1	3.0
Hispanic	5.0	6.6
% of Population Aged:		
0 - 4	7.1	6.7
5 - 9	6.3	6.4
10 - 14	6.9	6.8
15 - 17	4.8	4.3
18 - 24	9.0	9.4
25 - 44	26.7	28.1
45 - 64	26.9	26.6
65+	12.7	11.8
Households		
Total	11,974	2,092,538
% Families with Children	60.3	57.5

	Caroline County	Maryland
Household Income		
% Earning $0-$24,999	19.9	15.3
% Earning $25,000-$39,999	15.8	11.9
% Earning $40,000-$59,999	18.7	16.1
% Earning $60,000-$74,999	12.2	10.4
% Earning $75,000+	33.4	46.2
Median Household Income	$55,844	$69,475
% Living in Poverty	10.4	8.0
Educational Attainment		
% with High School Education	80.2	87.5
% with Bachelor's Degree	10.4	19.6

Caroline County, Maryland

Major Health Indicators (2008)[a]

	Caroline County	Maryland
Overall Health		
Life Expectancy at Birth	76.2	78.1
% With Activity Limitations	20.8	20.5
% With Fair or Poor Health	19.1	12.5
% Experiencing Unhealthy Days	20.3	22.2
All Cause Mortality **	892.4	780.8
Maternal/Child Health		
Infant Mortality Rate *	NA	6.5
% Low Birth Weight (Singleton)	5.0	4.9
% Low Birth Weight (All)	6.6	6.7
% Very Low Birth Weight (Singleton)	1.2	1.0
% Very Low Birth Weight (All)	1.2	1.3
% Pre-Term Births	10.8	9.5
Teen Birth Rate *	34.1	25.9
% Mothers Smoking During Pregnancy	11.2	6.2
% Mothers with Late or No Prenatal Care	3.0	4.2
Communicable Disease		
Tuberculosis Incidence **	3.0	4.9
Chlamydia Rate **	356.1	437.9
Gonorrhea Rate **	86.8	118.3
Rate of HIV/AIDS Cases **	7.3	46.6
Number of HIV Deaths	0	431
Number of Septicemia Deaths	1	988

[a] 2008 Data was used whenever available. Please refer to metadata for additional information.
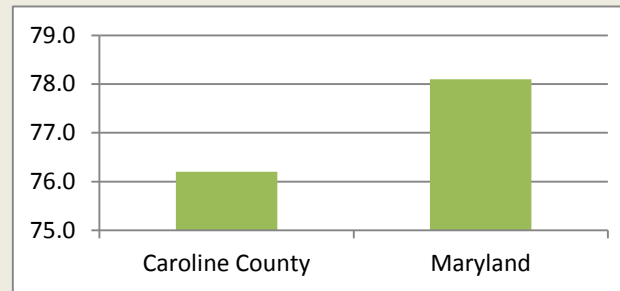* Rate per 1,000 Births
** Rate per 100,000 Residents

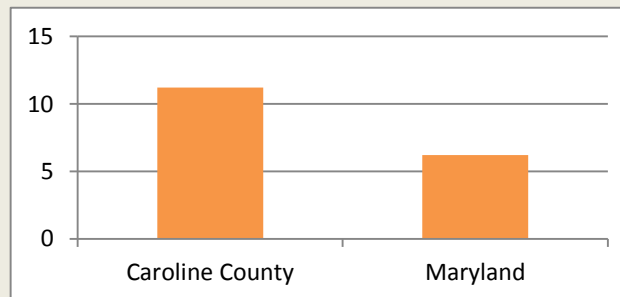**Fig. 1 Life Expectancy at Birth**

Fig. 2 Percent of Mothers Smoking During their Pregnancies

These are some of the most basic measures of health across the state. Many of these are also included in Maryland's State Health Improvement Process (SHIP)

For more information about environmental public health tracking go to:

The Environmental Public Health Tracking Site

Health Outcomes/Risk Factors (2008)[a]

	Caroline County	Maryland
Mental Health		
Number of Suicide Deaths	1	493
% with Anxiety Disorders	15	12.6
Substance Abuse		
Number of Alcohol-Induced Deaths	2	407
% Binge Drinkers	22.4	13.8
Environmental Health		
% Children Tested for Presence of Blood Lead	34.1	22.4
% Children With Lead Poisoning	0.8	0.7
Health Insurance		
% Without Health Insurance (Adults)	NA	NA
% Without Health Insurance (Children)	NA	NA
Unmet Medical Need		
% in Last Year that Could Not Afford to See a Doctor	15.2	10.4
Oral Health		
% That did not see a Dentist in the Last Year	32.9	28.6

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* Rate per 1,000 Births
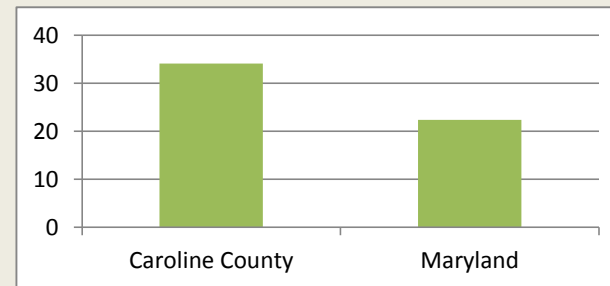
** Rate per 100,000 Residents

Fig. 3: Percent of children tested for elevated blood lead levels
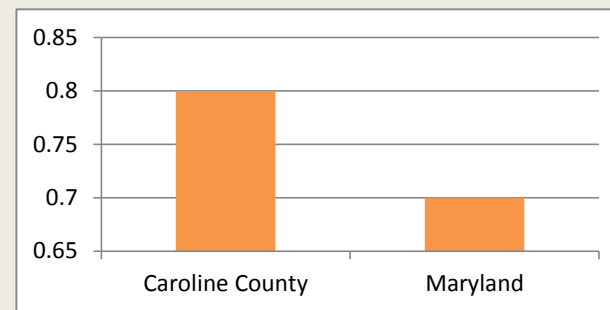

Fig. 4: Percent of tested children with elevated blood lead levels

These represent some important determinants of health, including mental health, substance abuse, and access to health services. Many of these are part of the State Health Improvement Process (SHIP)

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Risk Factors (2008)[a]

	Caroline County	Maryland
Unhealthy Weight		
% Overweight (Adults)	31	36.7
% Obese (Adults)	29.9	26.7
% Overweight (School-Age)	NA	17.7
% Obese (School-Age)	NA	22.3
Smokers		
% Adults that Smoke	19	14.9
% Middle Schoolers that Smoke	10.6	5.2
% High Schoolers that Smoke	6.5	7.0
Injury and Violence		
Number of Homicide Deaths	0	528
Number of Aggravated Assaults	83	20,571
Rate of Motor Vehicle Injury Hospitalizations **	144.8	109.8
Number of Motor Vehicle Deaths	16	643
Injury-Related ER Visits **	10,508	9,135
Injury-Related Hospitalizations **	1,403	1,068
Injury-Related Deaths **	96.6	63.0
Physical Inactivity and Built Environment		
% Adults Not Meeting CDC Recommendation for Activity	56.3	64.4
% With No Physical Activity	30.5	24.0
Access to Recreational Facilities **	9	12
% With Access to Healthy Foods	75.0	62.0

[a] 2008 Data was used whenever available. Please refer to metadata for additional information.
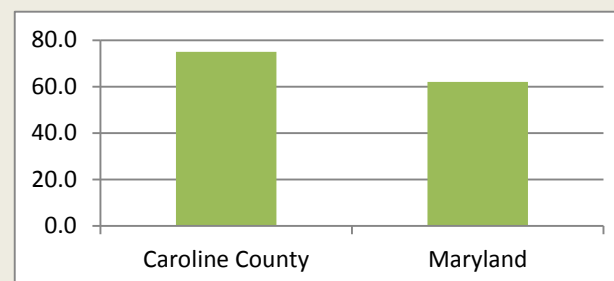** Rate per 100,000 Residents

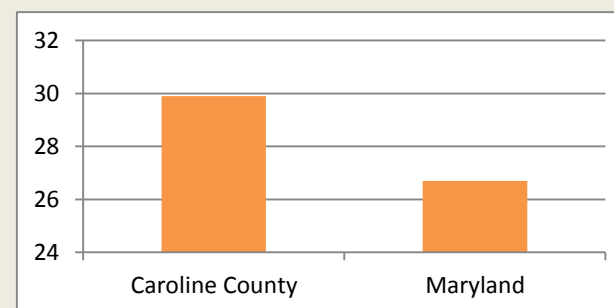**Fig. 5: Percent of population with access to healthy foods**

Fig. 6: Percent adults that are obese

The indicators on this page might be thought of as related in some ways to the built environment. While other factors such as personal behaviors must also be considered, there are relationships between the built environment and some important health outcomes.

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Caroline County

Health Outcomes (2008)[a]

	Caroline County	Maryland
Built Environment, cont.		
Percent Who Get to Work By:		
Single Occupancy Vehicle	80.6	73.2
Active Transport (Walking, Biking)	2.3	2.8
Public Transportation	0.5	8.7
Chronic Disease		
Number of Colorectal Cancer Deaths	9	964
Number of Breast Cancer Deaths	9	840
Number of Heart Disease Deaths	74	11,217
Number of Stroke Deaths	11	2,250
% with Diabetes	11.9	8.7
Diabetes Deaths **	NA	22.4
% Children with Asthma	16.1	14.3
Number of Childhood Asthma Hospitalizations	21	1,318
% Adults with Asthma	20.2	14.3
Number of Adult Asthma Hospitalizations	41	3,746
Cancer Screening		
% Adult Women that have Received a Mammogram	62.0	64.2
% Testing for Colorectal Cancer in Past 2 Years	28.0	25.0

Fig.7: Percent with Diabetes

Fig. 8: Percent of children with asthma

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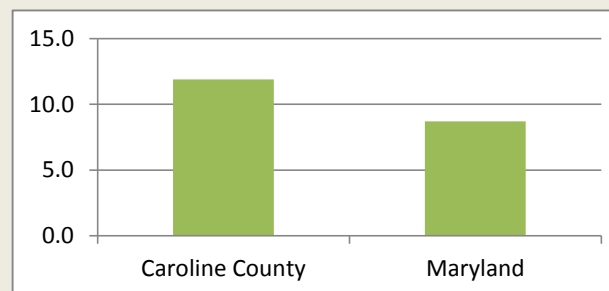
* Rate per 1,000 Births

** Rate per 100,000 Residents

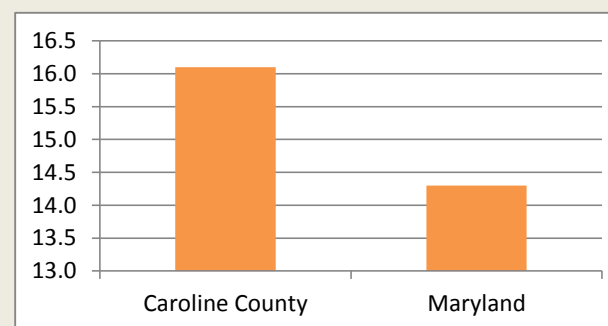Prevention and reduction of chronic diseases requires a combination of approaches, including improvements in screening, changes in personal behaviors, and changes in environmental conditions.

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Physical and Environmental Determinants (2008)[a]

	Caroline County	Maryland
Immunizations		
Average % of Kindergarten Students Immunized	100	99.3
% Adults Receiving Flu Shots	26.8	38.5
% Adults Receiving Pneumonia Shots	19.5	24.7
Environmental Exposure		
Ozone Days	7	16
Particulate Matter Days	2	4
Water Quality- Arsenic †	17.8	NA
Water Quality- Nitrates ‡	NA	NA
Water Quality- Trihalomethane †	NA	NA
Water Quality- Haloecetic Acids †	NA	NA

[a] 2008 Data was used whenever available. Please refer to metadata for additional information.

† Parts per Billion

‡ Parts per Million

Some connections between the environment and health are well known, such as that between asthma and air pollution. However, air pollution has also been shown to affect overall death rates. Data and information collected by public health agencies is being used by researchers to increase our understanding of these complicated relationships and design cost-effective prevention strategies.

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